

Logical Database Design

By: All A+ Essays

Order a Custom Written Essay from https://www.allaplusessays.com

Plagiarism Free | Same Day Delivery | Pocket Friendly Price



Logical Database Design

Overview: The objective of Project #1 is to develop a relational data model describing the primary business processes of Polytechnic Supply Corporation (PSC). PSC is in the business of Business-to-Business wholesale distribution, whereby they purchase all of their products directly from various





suppliers, and then they sell these products to their customers. Relevant business rules and a report that represents one user view are provided below. Business Rules:1. Each customer may place multiple orders. Each order must be placed by one and only one customer. 2. Each order must





contain one or many products. Each product may be requested by multiple orders.3. All products are purchased from suppliers – a product may be purchased from multiple suppliers at various unit costs; one supplier may provide multiple products. 4. PSC sells the same product at the same unit





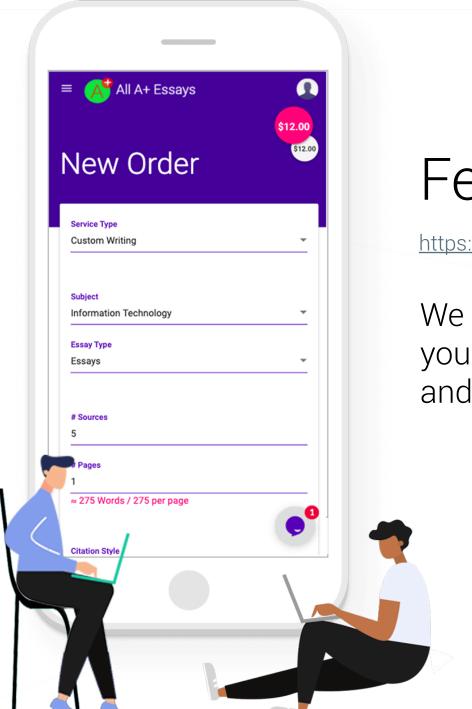
price to all customers. 5. PSC organizes their products into categories, such as books, food, appliances, electronics, sports, etc. A product can be in one and only one category, while one category may contain one or more products. Sample User View: Customer Order ReportAcme





TNT Customer #
2000 654 Dusty Road Salt Lake City UT 84115(800) 4443876Order Number Order Date Ship
Date 1515 6/1/2017







Feeling Stuck? We Can Help

https://allaplusessays.com/

We will write a paper on your topic, specifically for you! Place your order via <u>allaplusessays.com/signup</u> and receive a 30% discount on each paper.



Global Access
We have access to all
online journal repositories



Access
Anytime
24/7 Support



Top Grade Papers
Minimum B+
Guaranteed



1705

Blender

30

\$30.004

1700

Ironing Board

1

\$25.00 Task 1: Create the data dictionary and referential integrity based upon Business Rules Given.





Create a project report in MS Word and name it "[FirstNameLastName]_Project1.doc". Complete Table 1 Data Dictionary below, list entities (all letters in capitalization) and their attributes (first letter of each word capitalized), mark Primary Keys (PK) and Foreign Keys (FK), and their data





types, as the example shows. Then complete Table 2
Referential Integrity below, specify the relationships and their
cardinalities, as the example shows. Make sure to maintain
3rd Normal Form for each relation, i.e. no repeating groups,
partial dependencies or transitive





dependencies. Table 1: Data DictionaryEntityAttributeKey (mark if PK and/or FK)Data Type* and field length in format of Domain/Category (length or precision)CUSTOMER_TCustomerIDPKNumber / Integer CustomerName String / Varchar (100) ORDER_TOrderIDPKNumber / Integer...... * When you create a new





"Get 30% Off !!

Get an A in that nagging essay for

only \$10/Page

All A+ Essays

Your Preferred

Academic Partner

Hey, we are here to answer to

your questions. :-)

If you need A+ grade essays, post your questions on <u>allaplusessays.com</u> to nearly 50 active professional academic writers.

I guarantee that someone will attend to you within 5 minutes. :-)

Wanna Try? Click here: allaplusessays.com



number), scale (number of digits to the right of the decimal point in a number), and length (number of bytes that are used to store the number). Table 2: Referential IntegrityRelationshipCardinality Constraints**CUSTOMER_T -> ORDER_TOptional ManyORDER_T -> CUSTOMER_TMandatory One...... **
Cardinality





Constraints can be: Optional Many - means 1 to many with the minimum 0. Mandatory Many - means 1 to many with the minimum 1. Optional One - means 1 to 1 with the minimum 0. Mandatory One - means 1 to 1 with the minimum 1. Task 2: Create a logical data model in ERwin





based on Task 1. Open Erwin, follow "Instructions on Initial ERwin Setup" below and set up your Erwin correctly. Instructions on Initial ERwin Setup:Set up ERwin with the following specifications: Model —> Model Properties -> Notationso Under both Logical and Physical notation,





check "IE (Information Engineering)". Right click any spot on canvas and select "properties" on the "Display" tab: Sheck mark "Display Parent to Child Verb Phrase" on the "Entity" tab: Select "Attribute" from the drop-down for Logical Display Level Check mark all of the







including: O Create entities, their attributes, and relationships between the entities. O Mark primary and foreign keys. O Set the correct properties for each relationship (including Type properties, Relationship properties, and Cardinality properties). O Make sure everything is consistent





with the Table 1 Data Dictionary and Table 2 Referential Integrity in Task 1.0 Assign data type and field length to each attribute as you defined in the data dictionary in Task 1. • Make sure all entities, attributes, primary keys, and relationships are properly labeled following common





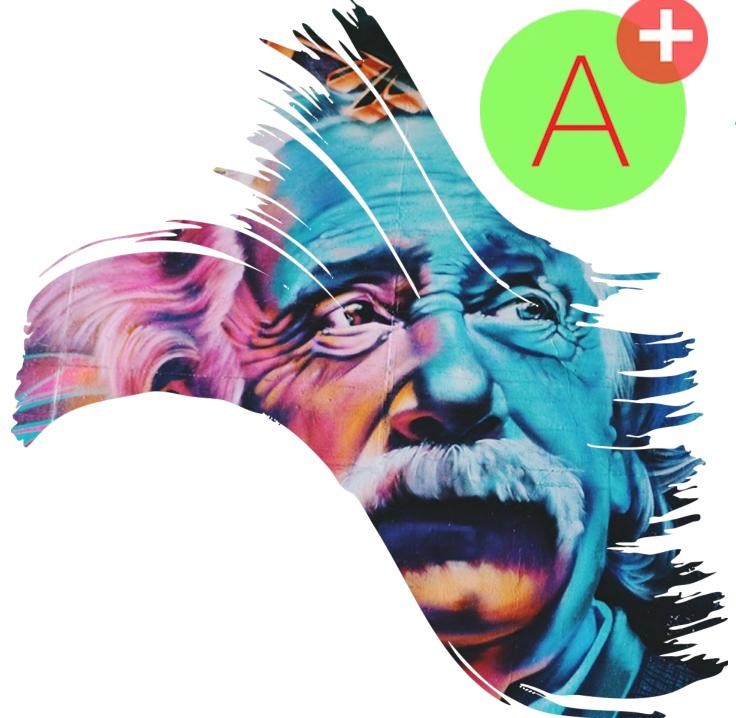
practice as shown in textbook and lectures. Double check the consistency between your Table 1 & 2 with your ERwin diagram, including details like cardinality constraints and data types. Make sure PK (marked with key icon and above the line inside its entity) and FK (marked with (FK) beside





the attribute name) are correctly created. When in doubt create some fictitious data and enter into your table design and see if it makes sense. Capture a screenshot of the logical model in ERwin and insert into your Word project report. Make sure the screenshot is readable to the level of





All A+ Essays Your Preferred Academic Partner

Hey, we are here to answer to your questions. :-)

If you need A+ grade essays, post your questions on <u>allaplusessays.com</u> to nearly 50 active professional academic writers.

I guarantee that someone will attend to you within 5 minutes. :-)

Wanna Try? Click here: <u>allaplusessays.com</u>



All A+ Essays

The Best Among the Best Visit Us today

https://www.allaplusessays.com